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TECHNOLOGY CENTER R3700

In re Application of:

Ohad ZIMRON et al.

Serial No.: 10/083,666

Group Art Unit: 3748

Filed: February 27, 2002

Examiner: H. Nguyen

For: **METHOD OF AND APPARATUS FOR COOLING A SEAL FOR MACHINERY**

**ATTACHMENT B - CLEAN COPY OF AMENDED CLAIMS**

Please amend claim 1 and 6 as follows:

*31* 1. (Amended) A method for cooling a seal located in a wall of a chamber and through which a movable shaft passes, said seal being heated by hot pressurized vapor that leaks through a labyrinth into the chamber and internal friction, said method comprising the steps of: (a) providing a chamber in which the seal is located and into which said hot pressurized vapor leaks; (b) injecting cool liquid into the chamber in which the seal is located; (c) cooling and condensing said hot pressurized vapor in said chamber thus cooling the seal and reducing the pressure in the chamber; (d) supplying condensate from said chamber to a vessel for collecting said condensate; and (e) supplying the collected condensate from said vessel to an exit of a condenser.

*32* 6. (Amended) Apparatus for cooling a seal located in a wall of a chamber and through which a movable shaft passes, said seal being heated by hot pressurized vapor that leaks through the seal into the chamber and internal friction, said apparatus comprising: (a) a chamber in which the seal is located and into which leaks the hot pressurized vapor; (b) means for injecting liquid into the chamber in which the seal is located such that the hot pressurized vapor is cooled and condenses in said chamber, thus cooling the seal; (c) a line that supplies condensate from said chamber to a vessel for collecting said condensate; and (d) a pump that supplies the collected condensate from said vessel to an exit of a condenser.